**PRANITHA NEKKANTI**

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**EDUCATION**

**Master of Science in Information Technology**  **Jan 2023 – Dec 2024**

Arizona State University, Ira A. Fulton Schools of Engineering, Tempe, AZ 4.0 / 4.0 GPA

**Bachelor of Technology in Computer Science and Engineering Jun 2017 – Jun 2021**

Gandhi Institute of Technology and Management, Bengaluru, India 3.6 / 4.0 GPA

**PROFESSIONAL EXPERIENCE**

**Data Engineer 2, PwC, Bengaluru, India Aug 2021 – Nov 2022**

* Designed ETL frameworks using Azure Data Factory to streamline HR data migration, enabling smooth transitions across multiple systems, and reducing processing times by 20%.
* Created an Excel-to-XML framework for 3,000 applications, reducing errors by 98% and streamlining workflows.
* Optimized data engineering pipelines using Apache Spark, boosting processing efficiency for large datasets by 30%.
* Engineered data warehousing solutions by integrating Hadoop and Kafka for processing large-scale unstructured data, enabling real-time analytics, and improving data accessibility by 25%.
* Spearheaded automation solutions using UiPath and Python, reducing manual intervention and HR processing times by 20%.
* Developed Power BI dashboards, enabling real-time operational insights and improved issue resolution times by 15%.
* Implemented scalable data storage and querying using Azure Data Lake and Synapse Analytics
* Authored technical documentation on Azure Data Factory, aiding in the adoption of best practices for future deployments.

**Full Stack Web Developer Intern, VERZEO, Bengaluru, India May 2020 – Jul 2020**

* Developed an end-to-end MERN stack web application, achieving a 50% improvement in user engagement within first 3 months.
* Integrated SQL and NoSQL databases to optimize dynamic data retrieval, reducing server response times by 30%.
* Employed CI/CD pipelines to streamline development processes, achieving a 40% reduction in deployment errors.

**TECHNICAL SKILLS**

**Programming/Scripting Languages:** Python, R, Java, C++, C, C#, JavaScript, SQL, NoSQL, Pandas, NumPy, Data Structures, Algorithms

**Technologies:** Databricks, Apache Spark, Kafka, Hadoop, Hive, Docker, CosmosDB, DynamoDB, PostgreSQL, Power BI, Tableau, MongoDB, SQL Server Management Studio, Airflow, Jenkins, ETL, CI/CD, DBMS, Kubernetes, Machine Learning, AI, Deep Leaning

**Cloud & Data Engineering:** Cloud computing, Microsoft Azure, AWS, GCP, IoT integration, Data Lakes, Data Warehousing, Data Migration, ETL Pipeline Design, Real-time Data Streaming, Big Data Analytics, Data Modeling, Data Transformation, Data Visualization

**Operating Systems:** Linux, iOS, Windows, Unix

**Core Competencies:** Agile, Jira, Git, DevOps, Project Management, Team Collaboration, Client & Cross-functional Team Communication

**ACADEMIC PROJECTS**

**YouTube Trending Data Pipeline and Analytics using AWS Aug 2024**

* Created a scalable data pipeline using AWS (S3, Glue, Lambda, Athena) to process YouTube trending datasets from Kaggle, transforming CSV and JSON files into Parquet format for efficient querying.
* Implemented automated data transformation workflows that supported the integration of diverse data formats, increasing data reliability for analytics and enhancing reporting speed by 50% across key business units.
* Mapped regional YouTube trends through advanced visualizations in Amazon QuickSight, driving the creation of 5 new targeted marketing campaigns; resulted in increased audience engagement and improved content strategy.

**IoT based Health Monitoring Device for Elder People using Real time Object Detection Jan 2021**

* Developed an IoT-based health monitoring system utilizing Arduino, Raspberry Pi, and cloud technologies, which enhanced real-time health data collection efficiency by 40% and reduced data visualization latency by 50%.
* Implemented Detectron2 for real-time object detection using ML, boosting accuracy by 30% and cutting processing time by 60%.

**CERTIFICATIONS**

* Advanced UiPath RPA Developer Mar 2022
* Microsoft Azure Developer Associate Sept 2022
* Microsoft Azure Data Fundamentals Jan 2022
* Microsoft Data Analyst Associate Jan 2022
* AWS Solution Architect - Associate Mar 2018